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Abstract

[1]

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Sammanfattning

[1]

LIST OF PAPERS

1. ***Title of paper***
   First author, Second author
   Journal (year)

   Other contributions by the author not included in the thesis.

2. ***Title of paper***
   First author, Second author
   Journal (year)

Paper I and III are published under license in *Journal of X*

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[1]

List of commonly used acronyms:

AE Acronym examples

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01 ENERGY NEEDS - AN INTRODUCTION

02 BACKGROUND AND STATE OF THE ART

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04 METHODOLOGY

05 RESULTS AND DISCUSSION

06 CONCLUSIONS

Part I

Included papers

SUPEROPTIMIZATION OF WEBASSEMBLY BYTECODE

Javier Cabrera-Arteaga, Shrinish Donde, Jian Gu, Orestis Floros, Lucas Satabin, Benoit Baudry, Martin Monperrus
Conference Companion of the 4th International Conference on Art, Science, and Engineering of Programming (Programming 2021), MoreVMs

https://doi.org/10.1145/3397537.3397567

CROW: CODE DIVERSIFICATION FOR WEBASSEMBLY

Javier Cabrera-Arteaga, Orestis Floros, Oscar Vera-Pérez, Benoit Baudry, Martin Monperrus
Network and Distributed System Security Symposium (NDSS 2021), MADWeb

https://doi.org/10.14722/madweb.2021.23004

MULTI-VARIANT EXECUTION AT THE EDGE

Javier Cabrera-Arteaga, Pierre Laperdrix, Martin Monperrus, Benoit Baudry
Conference on Computer and Communications Security (CCS 2022), Moving Target Defense (MTD)

https://dl.acm.org/doi/abs/10.1145/3560828.3564007

WEBASSEMBLY DIVERSIFICATION FOR MALWARE EVASION

Javier Cabrera-Arteaga, Tim Toady, Martin Monperrus, Benoit Baudry
Computers & Security, Volume 131, 2023

https://www.sciencedirect.com/science/article/pii/S0167404823002067

WWASM-MUTATE: FAST AND EFFECTIVE BINARY DIVERSIFICATION FOR WEBASSEMBLY

Javier Cabrera-Arteaga, Nick Fitzgerald, Martin Monperrus, Benoit Baudry
Under revision

SCALABLE COMPARISON OF JAVASCRIPT V8 BYTECODE TRACES

Javier Cabrera-Arteaga, Martin Monperrus, Benoit Baudry
11th ACM SIGPLAN International Workshop on Virtual Machines and Intermediate Languages (SPLASH 2019)

https://doi.org/10.1145/3358504.3361228